

#### 140 WEST FLAGLER STREET, SUITE 1603 MIAMI, FLORIDA 33130-1563

(305) 375-2901 FAX (305) 375-2908

www.miamidade.gov

## NOTICE OF ACCEPTANCE (NOA)

Poma Corporation 9040 Belvedere Road West Palm Beach, Florida 33411

#### Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION:** Extruded Aluminum Bahama Shutter

APPROVAL DOCUMENT: Drawing No. 07-301, titled "Bahama Shutter", sheets 1 through 3 of 3, prepared by Thornton Tomasetti, dated February 07, 2007, last revision #0 dated February 07, 2007, signed & sealed by J. W. Knezevich, P.E., bearing Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 00-0822.09 and consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.



Helmy A. Melon 03/15/2007

NOA No 04-1020.01 Expiration Date: 03/15/2012 Approval Date: 03/15/2007 Page 1

### Poma Corporation

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

# 1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #00-0822.09

### A. DRAWINGS

1. Drawing No. 99-262, titled "Bahama Shutter", prepared by Knezevich & Associates, Inc., dated July 24, 2000, last revision #1 dated November 6, 2000, sheets 1 through 3 of 3, signed and sealed by V. J. Knezevich, P.E.

#### B. TESTS

1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test of Bahama Shutters, prepared by Construction Testing Corporation, Report No. 00-026, dated 07/25/2000, signed and sealed by Christopher G. Tyson, P.E.

### C. CALCULATIONS

1. Comparative analysis and Anchor calculation, dated August 3, 2000, sheets 1 through 6, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.

### D. MATERIAL CERTIFICATIONS

- 1. Customer Extrusions by Metal Industries, Inc.
- 2. Tensile Test Report issued by Certified Testing Laboratories, dated August 28, 2000, Report No. CTL-797F.

### 2. NEW EVIDENCE SUBMITTED

### A. DRAWINGS

1. Drawing No. 07-301, titled "Bahama Shutter", sheets 1 through 3 of 3, prepared by Thornton Tomasetti, dated February 07, 2007, last revision #0 dated February 07, 2007, signed & sealed by J. W. Knezevich, P.E.,

### B. TESTS

1. None.

#### C. CALCULATIONS

1. Revised Anchor analysis and calculations dated February 04, 2007, 14 Pages, prepared by Thornton Tomasetti, signed and sealed by John W. Knezevich, P.E. on Februar 04, 2007.

### D. QUALITY ASSURANCE

I. By Miami-Dade County Building Code Compliance Office.

### E. MATERIAL CERTIFICATIONS

1. None.

Helmy A. Makar, P. E., M.S.
Product Control Examiner
NOA No 04-1020.01

Expiration Date: 03/15/2012 Approval Date: 03/15/2007

#### **GENERAL NOTES:**

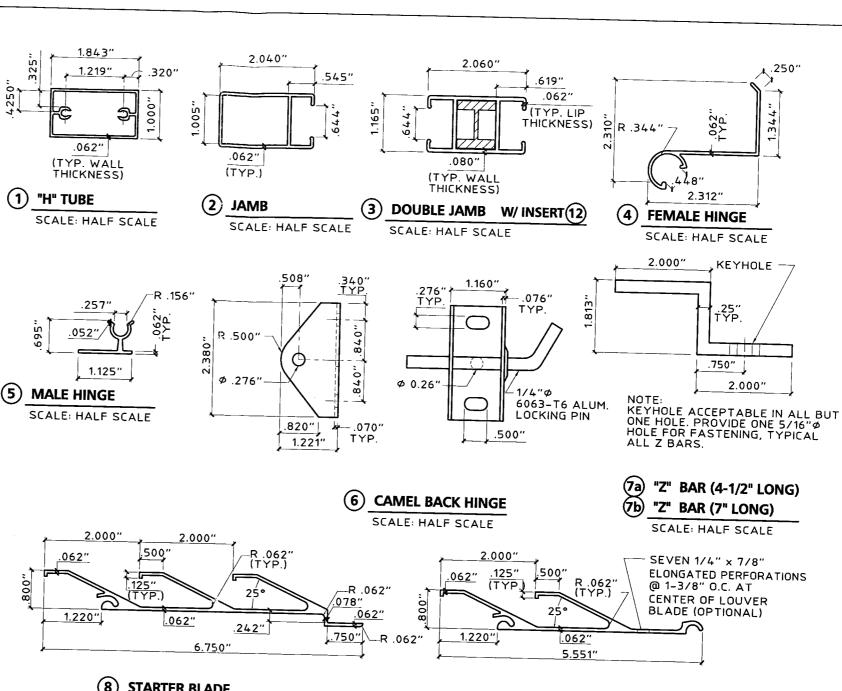
- THESE PRODUCT EVALUATION DOCUMENTS REPRESENT A SHUTTER SYSTEM OF ANALYZED WITH THE PROVISION SET FOR THE ISSUANCE OF A NOTICE OF A ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE FLORIDA BUILDING CODE 2004
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW
- DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH ASCE 7-02, A DIRECTIONALITY FACTOR OF Kd =0.85 SHALL BE USED.
- THESE PRODUCT EVALUATION DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE-SPECIFIC APPLICATION OF THIS SHUTTER SYSTEM.
- USE OF THESE PRODUCT EVALUATION DOCUMENTS SHALL COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
- THESE PRODUCT EVALUATION DOCUMENTS ARE INTENDED FOR USE ONLY BY A LICENSED CONTRACTOR, PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AND ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN. CONTRACTOR SHALL VERIFY EXISTING STRUCTURE CAN WITHSTAND SUPERIMPOSED LOAD OF SHUTTER.
- ANY MODIFICATIONS OR ADDITIONS TO THESE PRODUCT EVALUATION DOCUMENTS WILL VOID THE PRODUCT EVALUATION DOCUMENTS.
- WHEN THE SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:
  - REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION. SAID DOCUMENTS SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL.
  - REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION

WHEN THE SITE CONDITION DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS, ONLY OPTION "B" SHALL BE ACCEPTED BY THE BUILDING OFFICIAL.

- THE DETAILS AND SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED FOR IMPACT, CYCLIC AND UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH MIAMI-DADE COUNTY PROTOCOLS PA201, 202, AND 203 WITH DESIGN LOADS AS FOLLOWS:
  - A) OPEN POSITION INSTALLATIONS
     NON-HURRICANE, SHADE CONDITION
     POSITIVE DESIGN LOAD: 45.1 P.S.F. - NEGATIVE DESIGN LOAD: 45.1 P.S.F.
  - B) CLOSED POSITION INSTALLATIONS - HURRICANE SHUTTER CONDITION
    - POSITIVE DESIGN LOAD: 97.0 P.S.F. NEGATIVE DESIGN LOAD: 97.0 P.S.F. MIN. SEPARATION FROM GLASS: 3-9/16"
- 10. EACH SHUTTER ASSEMBLY SHALL BE PERMANENTLY LABELED AS FOLLOWS:

### POMA CORPORATION WEST PALM BEACH, FLORIDA MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED

- 11. ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
- 12. ALL SCREWS, BOLTS AND WASHERS TO BE 2024-T4 ALUMINUM ALLOY OR 300 SERIES STAINLESS STEEL WITH A 60 K.S.I. MINIMUM TENSILE STRENGTH. ALL POP RIVETS SHALL BE 3/16" DIAMETER 5052 ALUMINUM ALLOY.
- THIS SHUTTER SHALL BE PROVIDED WITH A PERMANENT LABEL INSTRUCTING THE OWNER OR TENANT TO CLOSE AND FASTEN THE SHUTTER TO THE WALL DURING PERIODS OF TIME AS ARE DESIGNATED BY THE U.S. WEATHER BUREAU AS BEING HURRICANE WARNING OR ALERT.





SEVEN 1/4" x 7/8" ELONGATED PERFORATIONS @ 1-3/8" O.C. AT CENTER OF LOUVER BLADE (OPTIONAL) .500 .062" (TYP.) 259 1.220" .062"

7.550



# **STANDARD 2 LOUVER BLADE**

SCALE: HALF SCALE

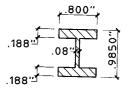
Acceptance No 04-1020.01 Expiration Date 03/15/2012 Miami Dade Must Control 2.301" 750", 242" <u>, .800",</u>



∕\_R .031"

.062"

-R .062'



PRODUCT REVISED

**Building Code** 

as complying with the Florida

INSERT SCALE: HALF SCALE

FL License No.: PE 0041961 EEB 07 2007 Ons revisi 02/07/2007 AS NOTED drawn MCR NW 07-301 sheet 1 of

TT.

Tomas

HOTELOH

SHUTTER

BAHAMA

954.522.3690 • **F** 9 Website: www.T

U Corporation 40 Belvedere Road alm Beach, FL 33411 0-5799 • Fax (561) 792-9281

Poma 9040 West Pal : (561) 790-2

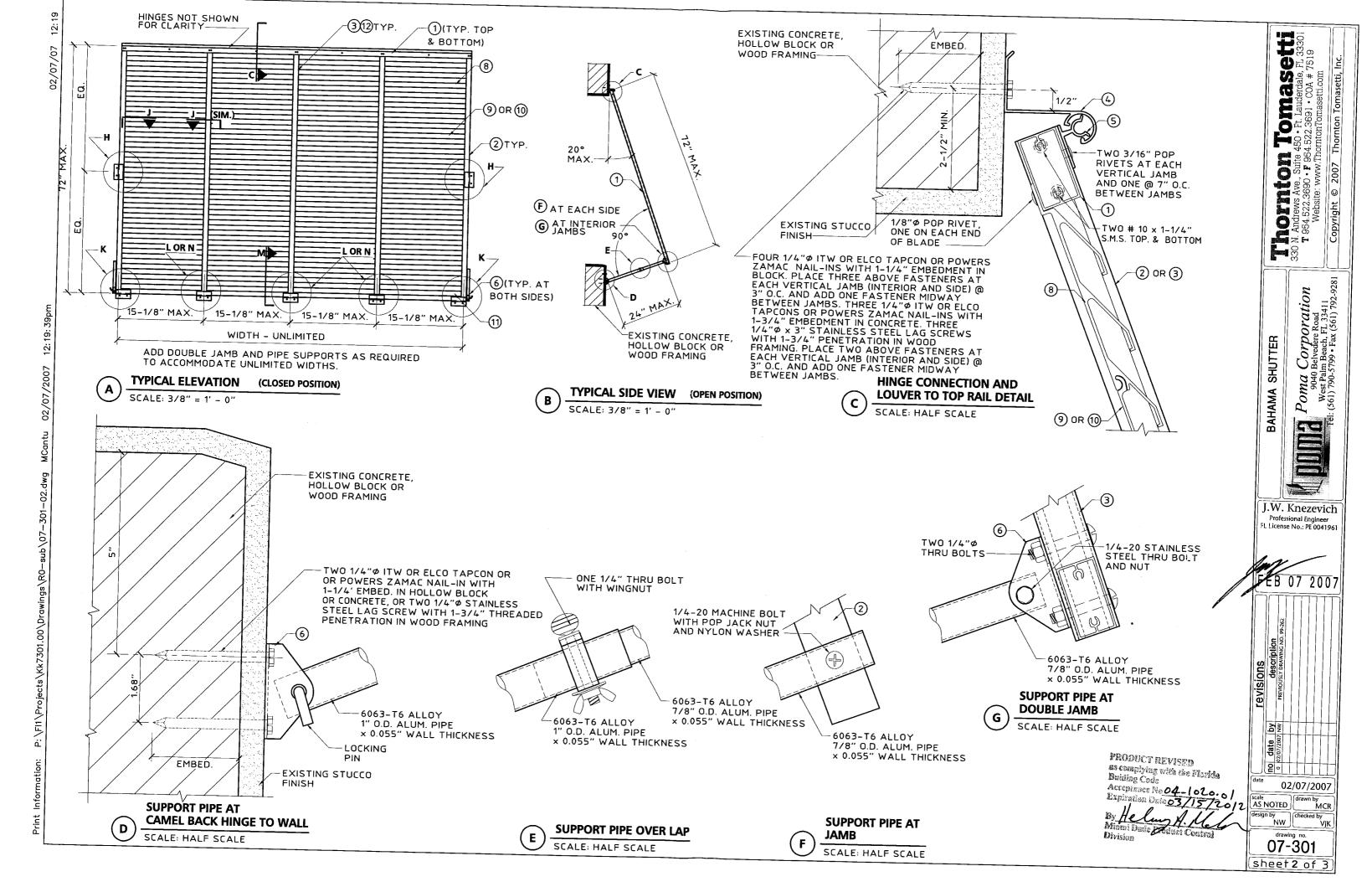
J.W. Knezevich

Professional Engineer

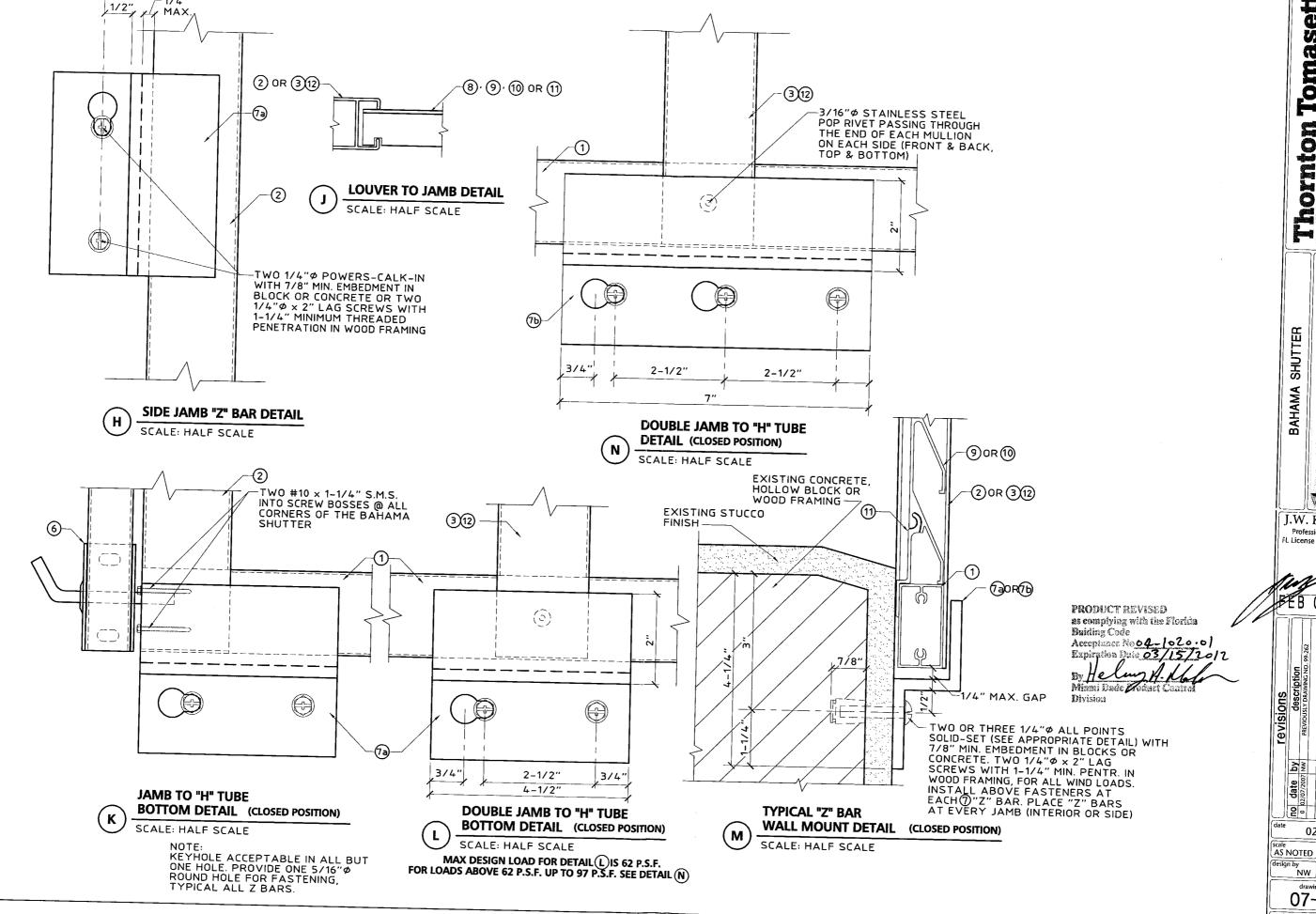
z F

0

.250"



EDGE DIST 3" MIN EXCLUDING STUCCO



| Tomasett| | 450 - Ft. Lauderdale, Ft. 33301 | 54.522.3691 - COA # 7519 7 N. Andrews Ave., 544.5 **T** 954.522.3690 • **F** 954. Website: www.Tho Thornton 330 N. Andrews Ave., Suite 4

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J.W. Knezevich Professional Engineer FL License No.: PE 0041961

BEB 07 2007

02/07/2007 drawn by MCR AS NOTED

07-301

sheet 3 of 3